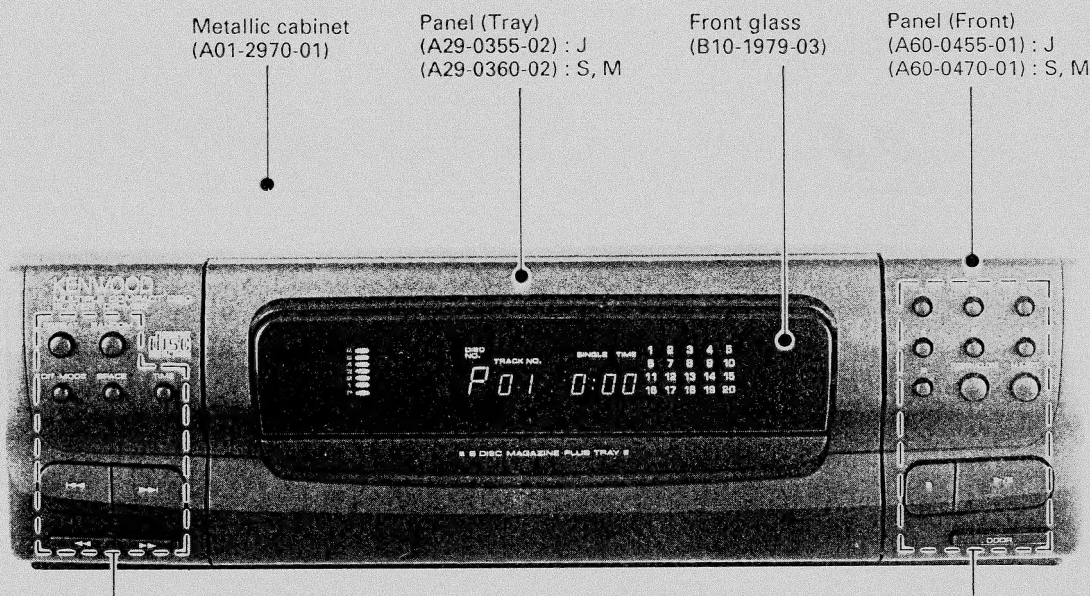


DP-MB5/MB9

SERVICE MANUAL

KENWOOD

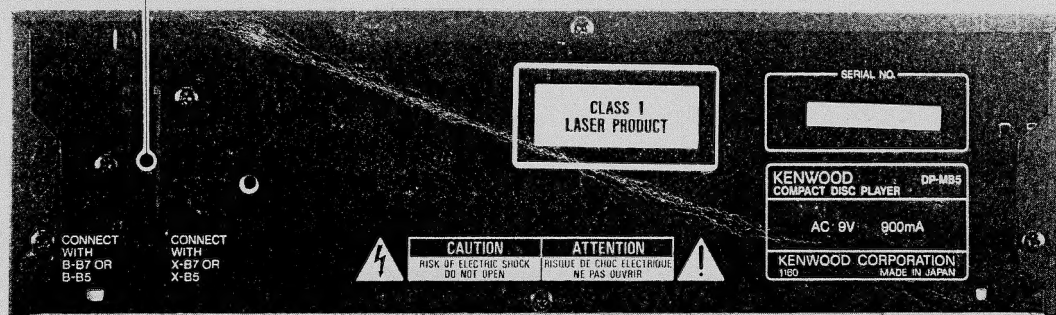
© 1993-6 PRINTED IN JAPAN
B51-4781-00(O) 4447



Rectangular receptacle
(E58-0006-05)

Knob (Play/Pause, Stop etc.)
(K29-5777-12)

J=JAPAN made
S=SINGAPORE made
M=MALAYSIA made



***Photo is DP-MB5.**

Refer to DP-MA5/MA9 service manual (B51-4588-00), if need description in detail.

CAUTION : When doing repair of DP-MB5, MB9 be sure to have the customer bring the B-B5, B-B7, B-B9 or use power supply jig <RM-90PS + UA-93AD (adaptor) >, or supply to 9V AC to terminal Nos 14 and 15 of J1 on the X32-2550 (X32-2590) PC board ass'y. If not get 9V AC, please order the A-848's power transformer (parts No. L07-0038-05 / 120V / 220V / 240V). Refer to the DP-911 service manual. Don't use the "RHEO-STAT".

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.


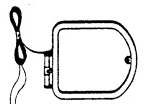
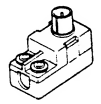
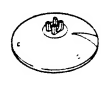

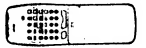




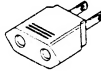

DP-MB5/MB9

CONTENTS/ACCESSORIES

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SPECIFICATIONS	BACK COVER

NOTE : Refer to DP-MA5/MA9 service manual (B51-4588-00), if need description in detail.

ACCESSORIES

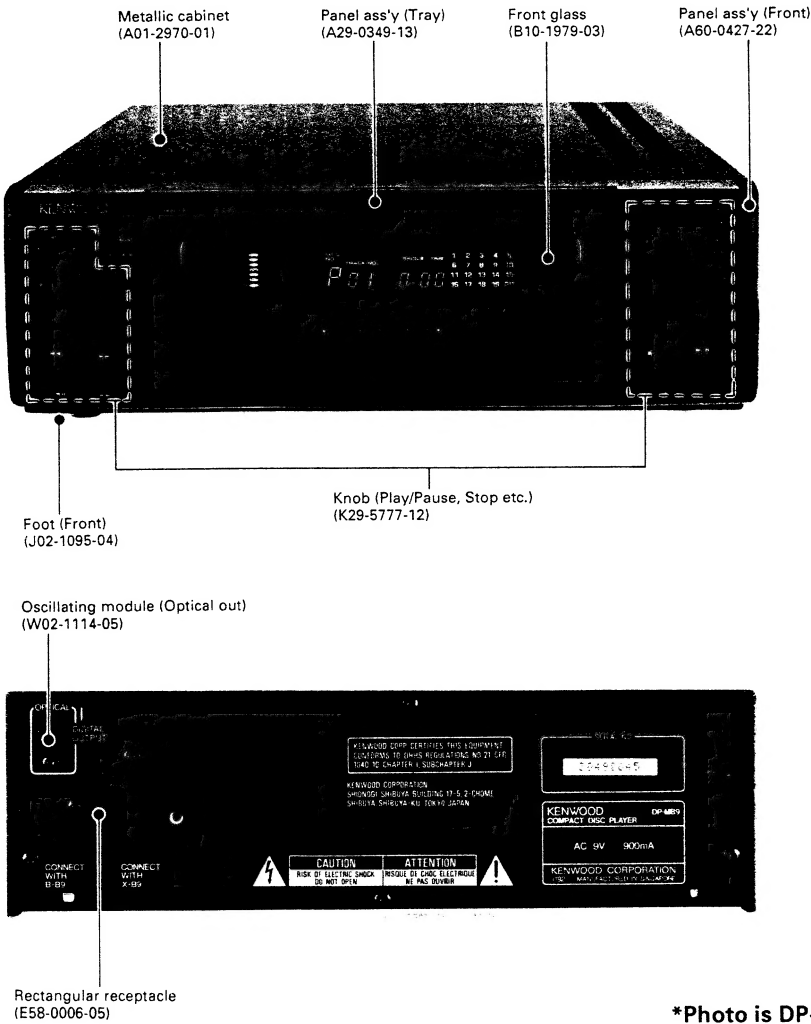
• FM indoor antenna 1 (T90-0176-05)	• AM loop antenna 1 (T90-0173-05)	• Antenna adptor 1 (T90-0185-05) : 75 Ω / 300 Ω	• Loop antenna stand 1 (J19-2815-04)
			
For U.K. and Europe			
• Sound enhancement CD 1 (W01-0830-05)	• Remote control unit 1 (X94-1050-51 : UD-551M) (X94-1050-31 : UD-751M) (X94-1050-00 : UD-951M)	• Battery 2 (-)	• Magazine 1 (J19-3397-12)
			
Battery cover (F07-0721-23)			
• Audio cord 1 (E30-0615-05 : UD-951M only)	• Parallel cord 1 (E30-2741-05)	• AC plug adptor 1 (E03-0155-05)	• Speaker cords* Red / Blk (UD-551M) 2 Red / Blk (UD-751M,951M) 1 Blu / Blk (UD-751M,951M) 1
			
For the unit with a European AC plug in areas other than Europe.		Except for some areas	*Refer to Speaker's service manual. •

Speaker cords are packed with the Speakers, magazine are packed with the CD player.
All other accessories are packed with the Pre-amp/Tuner unit.

System name	Pre-amp/Tuner	Powre-amp	CD player	Cassette deck	Speaker
UD-551M	C-B5/B5L	B-B5	DP-MB5	X-B5	LS-B5
UD-751M	C-B7/B7L	B-B7	DP-MB5	X-B7	LS-B7
UD-951M	C-B9/B9L	B-B9	DP-MB9	X-B9	LS-B9

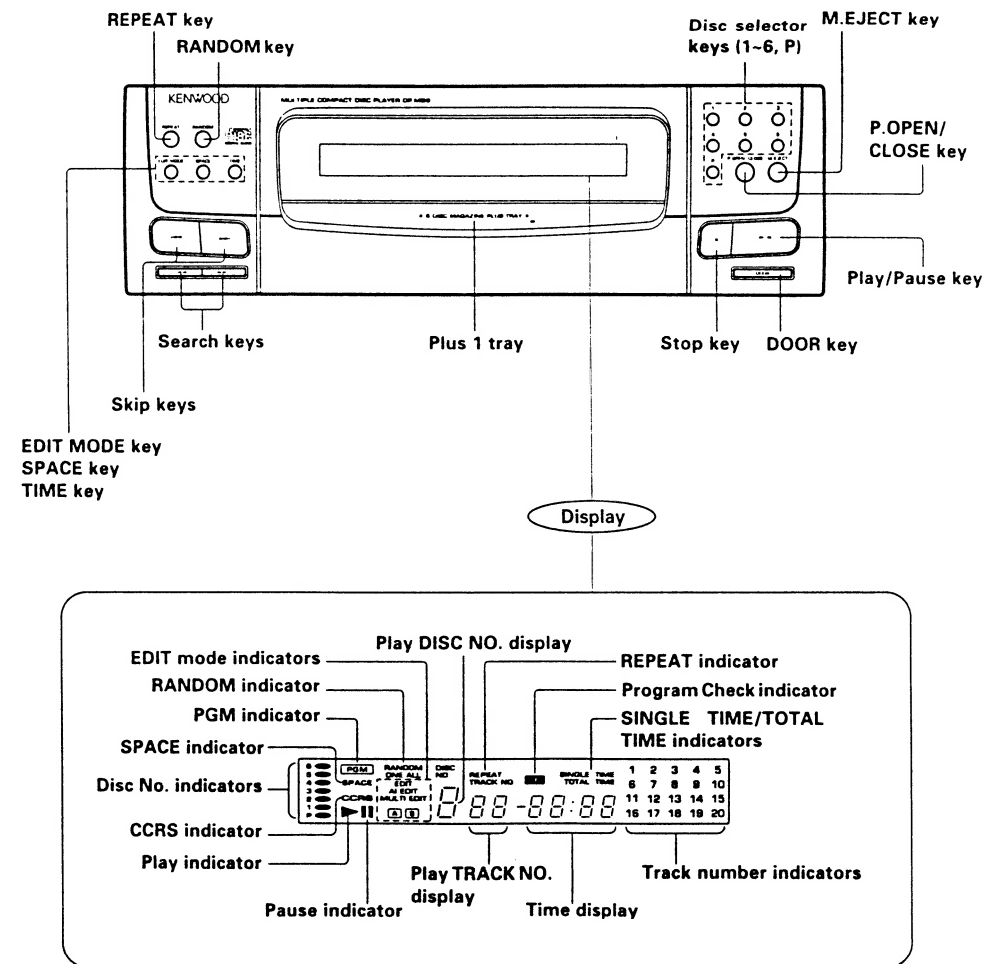
DP-MB5/MB9

EXTERNAL VIEW : DP-MB9



*Photo is DP-MB9.

CONTROL

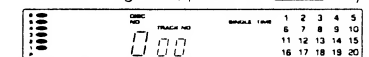


• Note related to transportation and movement (CD player)

Before transporting or moving this unit, carry out the following operations.

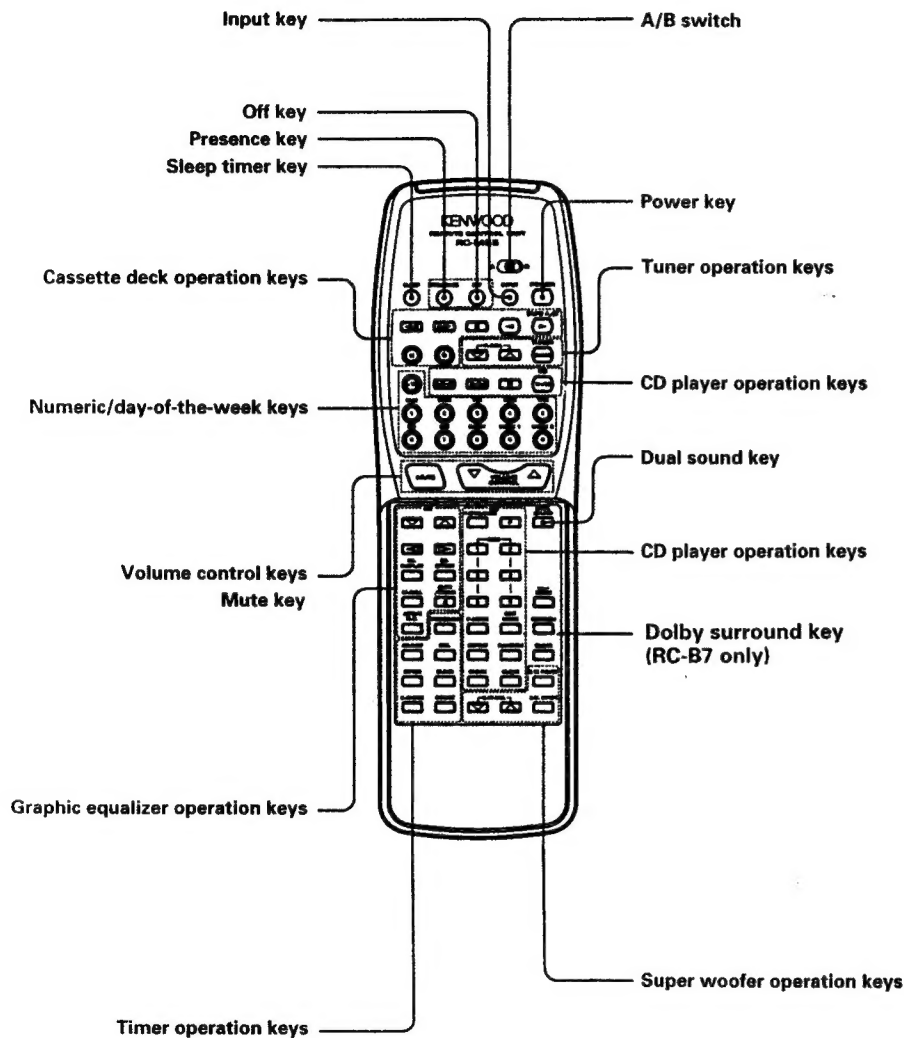
1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.

Without magazine, press the key.

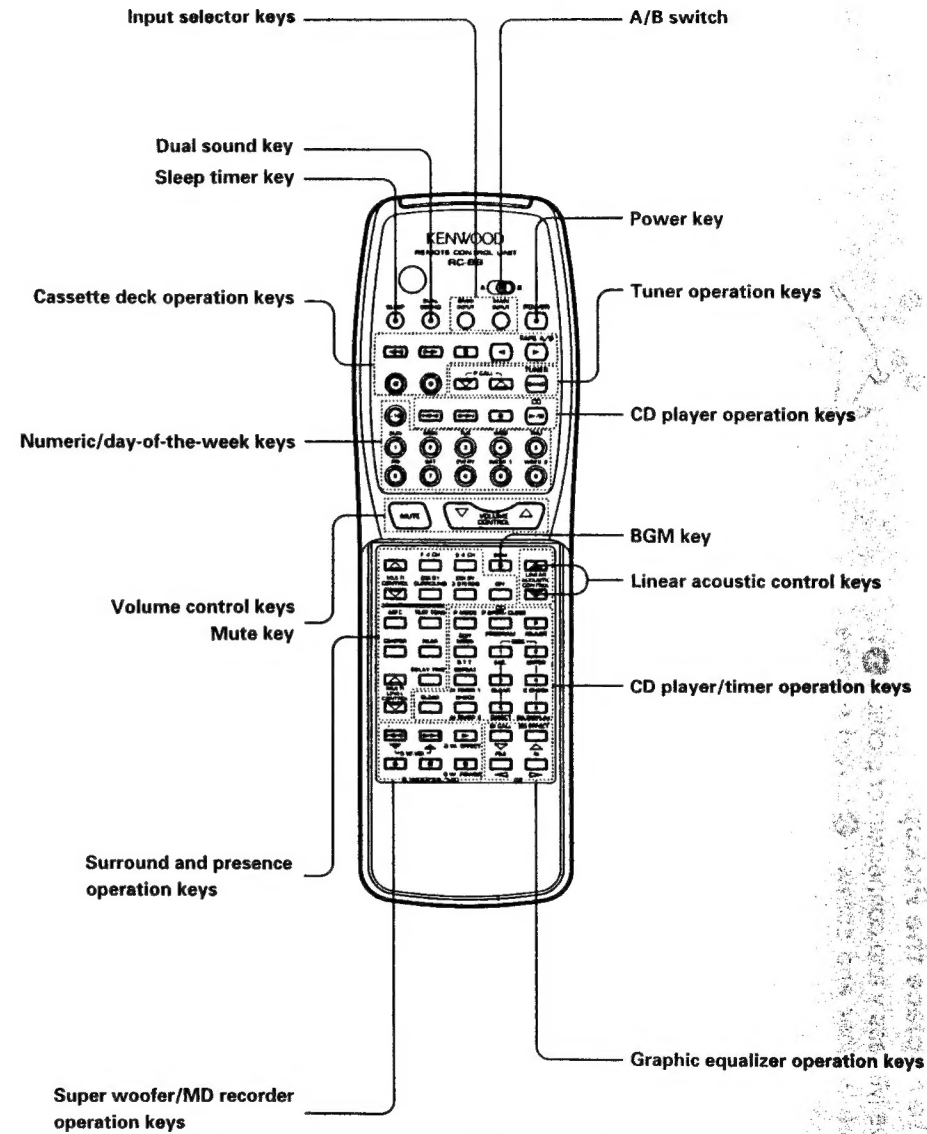


■ UD-551M, UD-751M (DP-MB5)

■ UD-951M (DP-MB9)



Model name : RC-MB5 (X94-1050-51) : UD-551M
 Model name : RC-B7 (X94-1050-31) : UD-751M
 Infrared color system



Model name : RC-B9 (X94-1050-00)
 Infrared color system

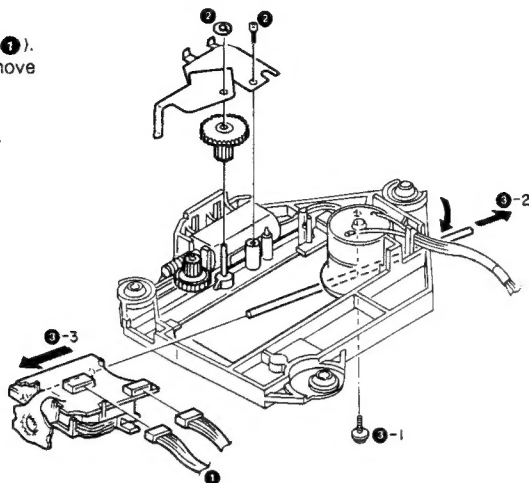
REMOTE CONTROL OPERATING

DP-MB5/MB9

DISASSEMBLY FOR REPAIR

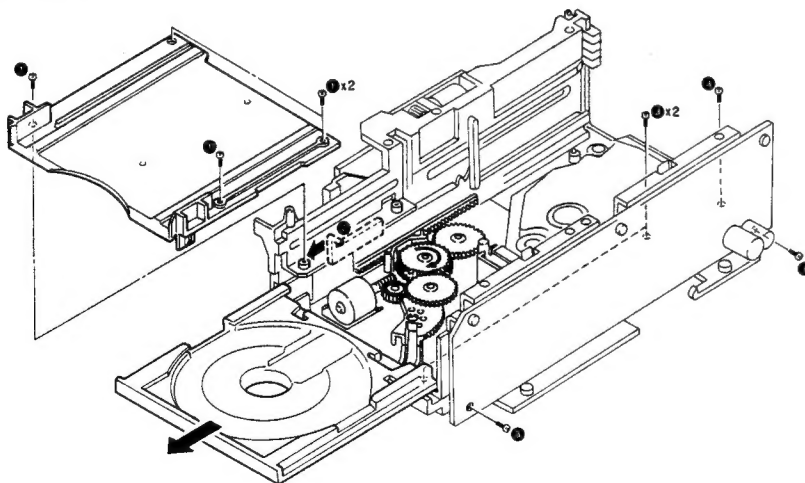
2. How to Replace the Pickup

1. Remove MD ass'y and connector for pickup (1).
2. Remove washer and screw (2). And remove feed gear.
3. Remove screw for pickup rod (3-1).
4. Pull out rod (3-2) and remove pickup (3-3).



3. How to Remove Plus 1 Tray ass'y

1. Unscrew screws (1) and remove magazine pack holder.
2. Move lock lever (2) frontwards and pull out plus 1 tray frontwards. If not come out tray, turn gear clockwise.
3. Remove screws (3).

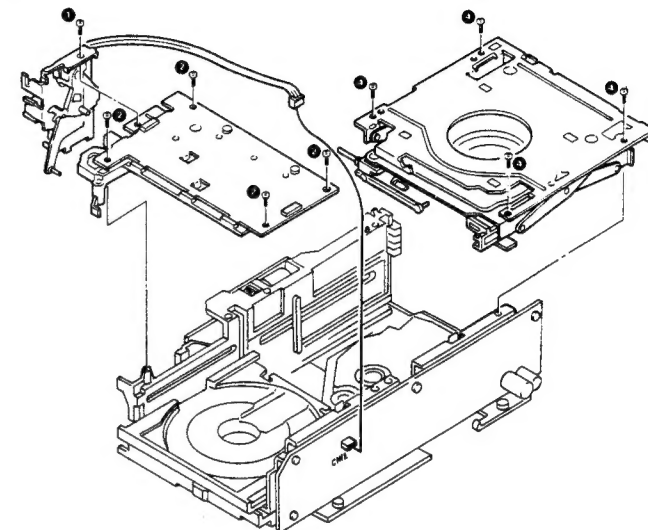


DISASSEMBLY FOR REPAIR

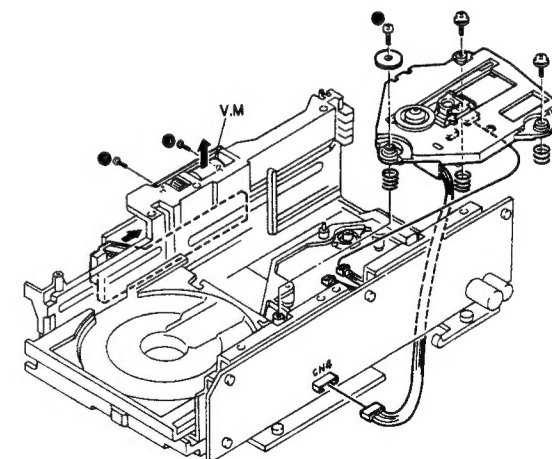
1. How to Disassemble MD (Mechanism Deck) ass'y

* Take out Magazine pack.

1. Remove solenoid ass'y (1).
2. Remove magazine lock ass'y (2).



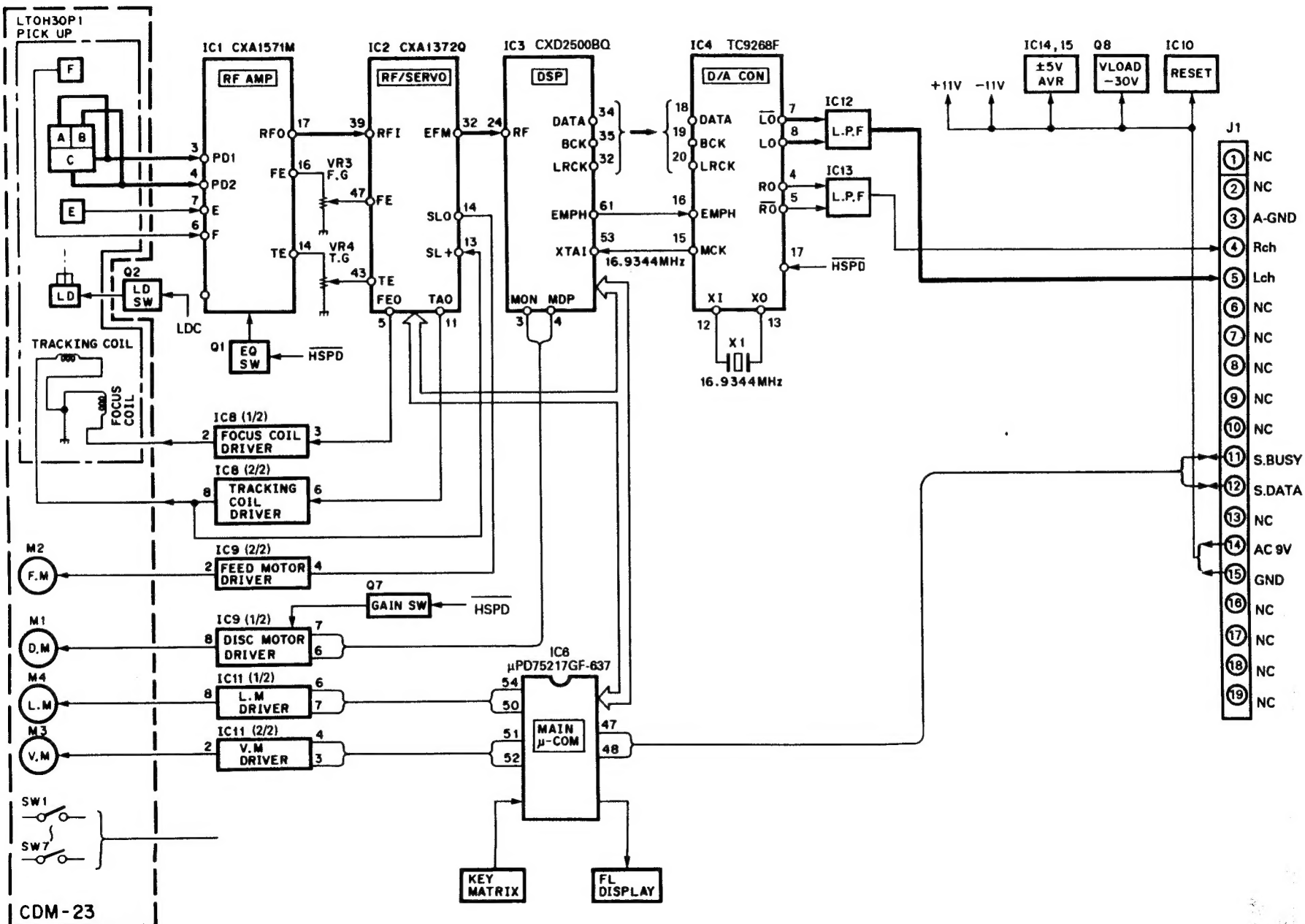
3. Remove screws of vertical motor (3).
4. Lift up motor and move slider fully backwards.
5. Remount vertical motor with screws.
6. Remove lifter ass'y (4).
7. Remove screws of MD ass'y (5).



DP-MB5/MB9

BLOCK DIAGRAM

8



CIRCUIT DESCRIPTION

1. Test Mode

Setting the test mode

This microprocessor built in this unit (X32-) can be put to TEST MODE by just short-circuiting the test pins (#2 and #3).

No.	Input key	Function	Display
1	STOP	(1) Focusing servo OFF (2) Tracking servo OFF (3) Feed servo OFF	
2	REPEAT	(1) Laser (in STOP mode only) ON	
3	RANDOM	(1) Focusing servo ON (2) Tracking servo OFF (3) Feed servo OFF	
4	TIME	(1) Focusing servo ON (2) Tracking servo ON (3) Feed servo OFF	
5	PLAY	(1) Focusing servo ON (2) Tracking servo ON (3) Feed servo ON	
6	DISC 1	Load No.1 disc to No.6 in order.	
7	DISC 2	Read the TOC (table of contents) of disc No.3 to No.6 in order. TEST mode is cancelled after reading the TOC of No.6 disc, and then playback the 1st track.	

DP-MB5/MB9

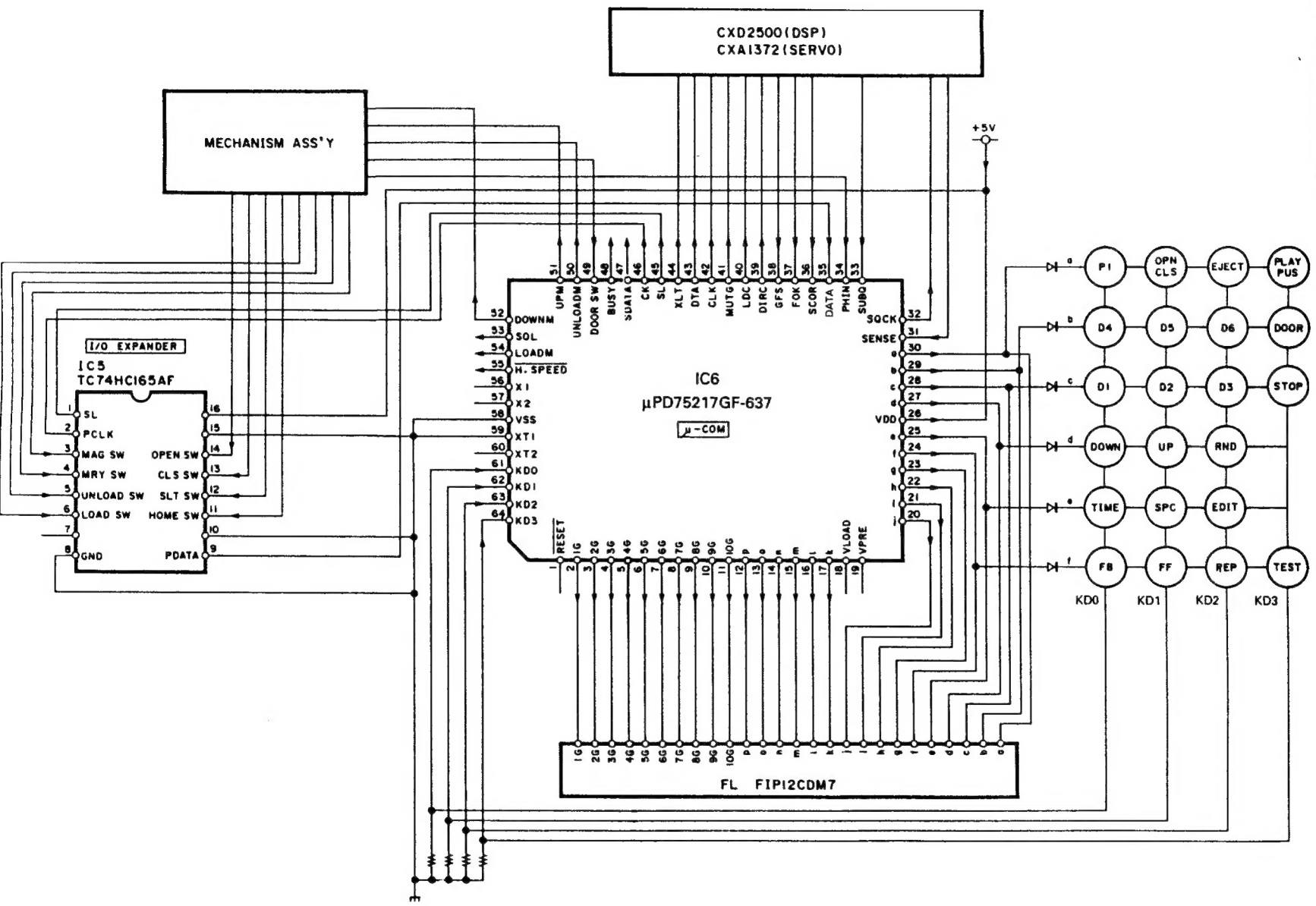
CIRCUIT DESCRIPTION

No.	Input key	Function	Display
8	DISC 3 ~ 6 DISC P	Load the decided No. disc which is pressed by the key and set to STOP mode. ex. Disc No.4 key is pressed (PLAY, CHECK and CLEAR keys are available to operate).	
9	UP	Turns all FL display lamps ON.	
10	DOWN	Turns all FL display lamps OFF. "DISC" and "1 ~ 6" are not off because circuit is static operation.	
11	EDIT	(1) Door opens. (2) P1 tray come out. Press 'EDIT' key, "PLAY MODE".	
12	FF	In the STOP mode, moves the pickup slightly toward the outer position of disc.	
13	FB	In the STOP mode, moves the pickup slightly toward the inner position of disc.	
14	SPACE	High-speed playback CHECK mode (in stop mode only) playback P1 disc in high-speed mode. If press "SPACE" key, change to normal mode. In this mode, all keys are available.	

CIRCUIT DESCRIPTION

2. Microprocessor : μ PD75217GF-637 (IC6)

2-1. Pin connection diagram



CIRCUIT DESCRIPTION

2-2. Pin functions : μ PD75217GF-637 (IC6)

Pin No.	Pin name	I/O	Function
1	RESET	—	Reset input port
2 ~ 11	1G ~ 10G	O	FL grid control port
12 ~ 17	p ~ k	O	Not used
18	VLOAD	I	FL driver negative power supply
19	VPRE	I	FL pre-driver power supply
20 ~ 25	j ~ e	O	FL grid control port also used for key-scan
26	VDD	—	+5V power supply
27 ~ 30	d ~ a	O	FL grid control port also used for key-scan
31	SENSE	I	Signal detection port for SENSE signal from signal processor and servo IC
32	SQCK	O	Q-data read clock output port
33	SUBQ	O	Q-data input port
34	PHIN	I	Photo interrupter input port for mechanism (PH1)
35	DATA	I	Data input from TC74HC165AF
36	SCOR	I	Sub-code frame sync detection signal input port
37	FOK	I	Input port of FOK signal from RF amp
38	GFS	I	Input port of frame sync signal
39	DIRC	O	DIRC control port of servo IC
40	LDC	O	Laser ON/OFF signal output
41	MUTG	O	Mute port of signal processor
42	CLK	O	Signal processor and servo IC control out port (CLOCK)
43	DATA	O	Signal processor and servo IC control out port (DATA)
44	XLT	I	Signal processor and servo IC control out port (LATCH)
45	S/L	I	Latch output port of TC74HC165AF
46	CK	O	Clock output port of TC74HC165AF
47	SDATA	I/O	Serial DATA in/out port
48	BUSY	I/O	Serial BUSY in/out port
49	DOORSW	O	Door switch input port of mechanism
50	UNLOADM	O	Control port of unloading motor for mechanism
51	UPM	O	Control port of up motor for mechanism
52	DOWNM	O	Control port of down motor for mechanism
53	SOL	O	Control port of solenoid for mechanism
54	LOADM	O	Control port of loading motor for mechanism (L.M.)
55	H.SPEED	O	High-speed control port (Active L)
56	X1	I	Oscillation input port (4.19MHz)
57	X2	—	NC
58	VSS	—	GND
59	XT1	—	GND
60	XT2	—	NC (Open)
61 ~ 64	KD0 ~ 3	I	Key input port

2-3. Pin functions : TC74HC165AP (IC9)

Pin No.	Pin name	I/O	Function
1	SL	I	Shif load input
2	PCLK	I	Clock input
3	MAGSW	I	Magazine switch (SW4)
4	MRYSW	I	Memory switch (SW3)
5	UNLOADSW	I	Unload switch (SW5)
6	LOADSW	I	Load switch (SW5)
7	—	O	No use
8	GND	—	Ground
9	PODATA	O	Data output
10	—	I	No use
11	HOMESW	I	Home position switch (SW2)
12	SLTSW	I	Start limit switch (SW1)
13	CLSSW	I	Tray close switch (SW6)
14	OPNSW	I	Tray open switch (SW6)
15	—	I	No use
16	VCC	—	Power supply (+5V)

2-4. TOC data output of serial codes for AI file

When the CD player reads the TOC data of a disc (in the play mode), the following serial codes (16 bits) are output.

- **CD MAX TRACK No. [61XX]**
Model code61H
Function codeXXH (Max TNO)
- **CD TOTAL TIME (min.) [62XX]**
Model code62H
Function codeXXH (Total time in min.)
- **CD TOTAL TIME (sec.) [62XX]**
Model code63H
Function codeXXH (Total time in sec.)

Example

When a disc containing 20 tunes of 65 minutes and 2 seconds in total is played, the following three codes [6120], [6265] and [6302] are output continuously.

DP-MB5/MB9

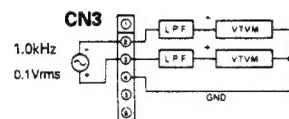
ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN3-1) CH2: TE (CN3-6)	Press the P. OPEX/CLOSE key to open the tray. Reset to TEST mode. Then, press the CHECK key. Confirm that the display is "03".	TE BALANCE VR2	Symmetry between upper and lower patterns, or DC=0±0.05V	(a)
2	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN3-1) CH2: TE (CN3-6)	Press the PLAY key. Confirm that the display is "05".	FE BALANCE VR1	Optimum eyepattern Grating is correctly aligned with the RF level of 1.5Vp-p or more and the TE (servo open) level of 1.5Vp-p or more, the pickup is acceptable.	(b)
3	FOCUS GAIN	Test disc Type 4 Apply signal of 1kHz, 0.1Vrms to CN3 pin 2 and 3.	Connect a LPF to CN3 pin 2-3, to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	FOCUS GAIN VR3	Two VTVMs should read the same value.	(c)
4	TRACKING GAIN	Test disc Type 4 Apply signal of 1.3kHz, 0.1Vrms to CN3 pin 5 and 6.	Connect a LPF to CN3 pin 5-6, to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	TRACKING GAIN VR4	Two VTVMs should read the same value.	(c)

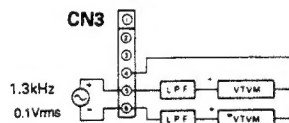
(NOTE) Type 4 disc : SONY YEDS-18 TEST DISC or equivalent. LPF: around 47kohms-390pf or so. Adjustment procedures are in TEST MODE.

(c) Focus Gain and Tracking Gain Adj.

Focus gain adj.



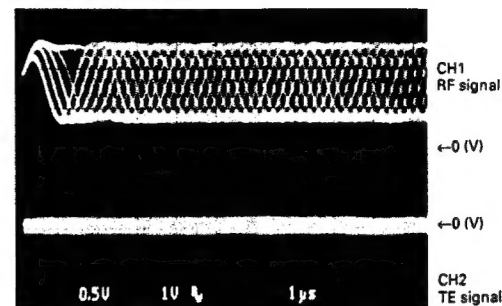
Tracking gain adj.



DP-MB5/MB9

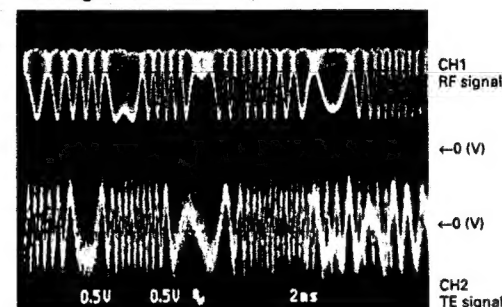
ADJUSTMENT

RF level Wave-form



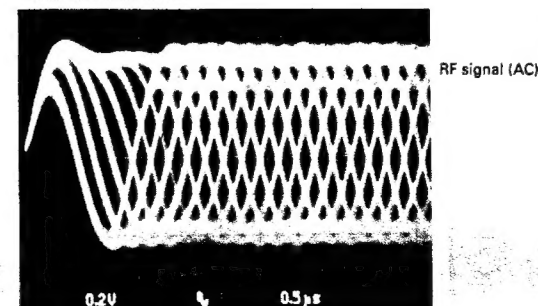
- RF signal and E.Spot signal in test mode (PLAY).

Tracking error balance



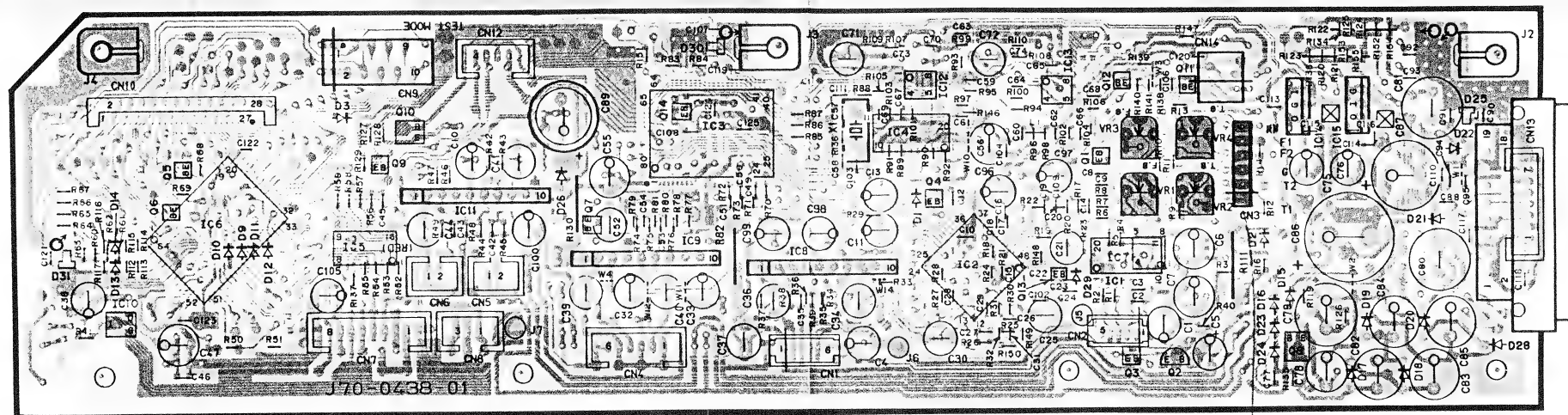
- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical above and below 0V (VR2).

Focus error balance

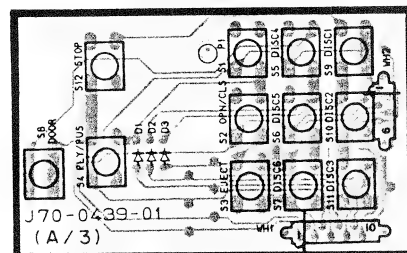


- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points above and below the center shall also be displayed clearly.

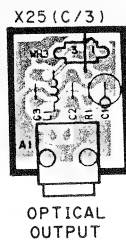
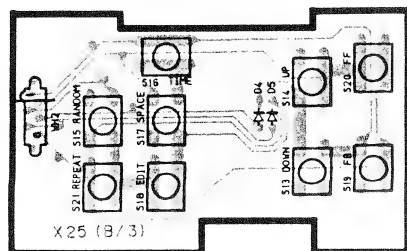
PC BOARD (COMPONENT SIDE VIEW)



X32-2550-XX (-00:MB5, -01:MB9) JAPAN MADE / X32-2590-XX (-00:MB5, -01:MB9) SINGAPORE, MALAYSIA MADE



X25-5360-XX (-00:MB5, -01:MB9) JAPAN MADE
X25-5430-XX (-00:MB5, -01:MB9) SINGAPORE, MALAYSIA MADE

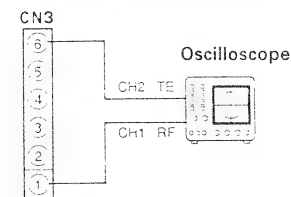
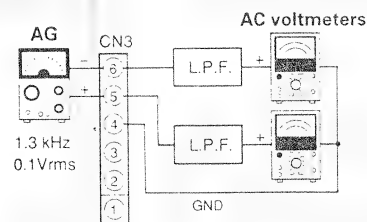


OPTICAL OUTPUT

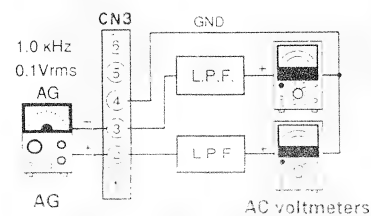
(c) Tracking gain : Two VTVMs should read the same value.

(a) Tracking error balance :
Symmetry between upper and lower patterns or DC=0±0.05V.

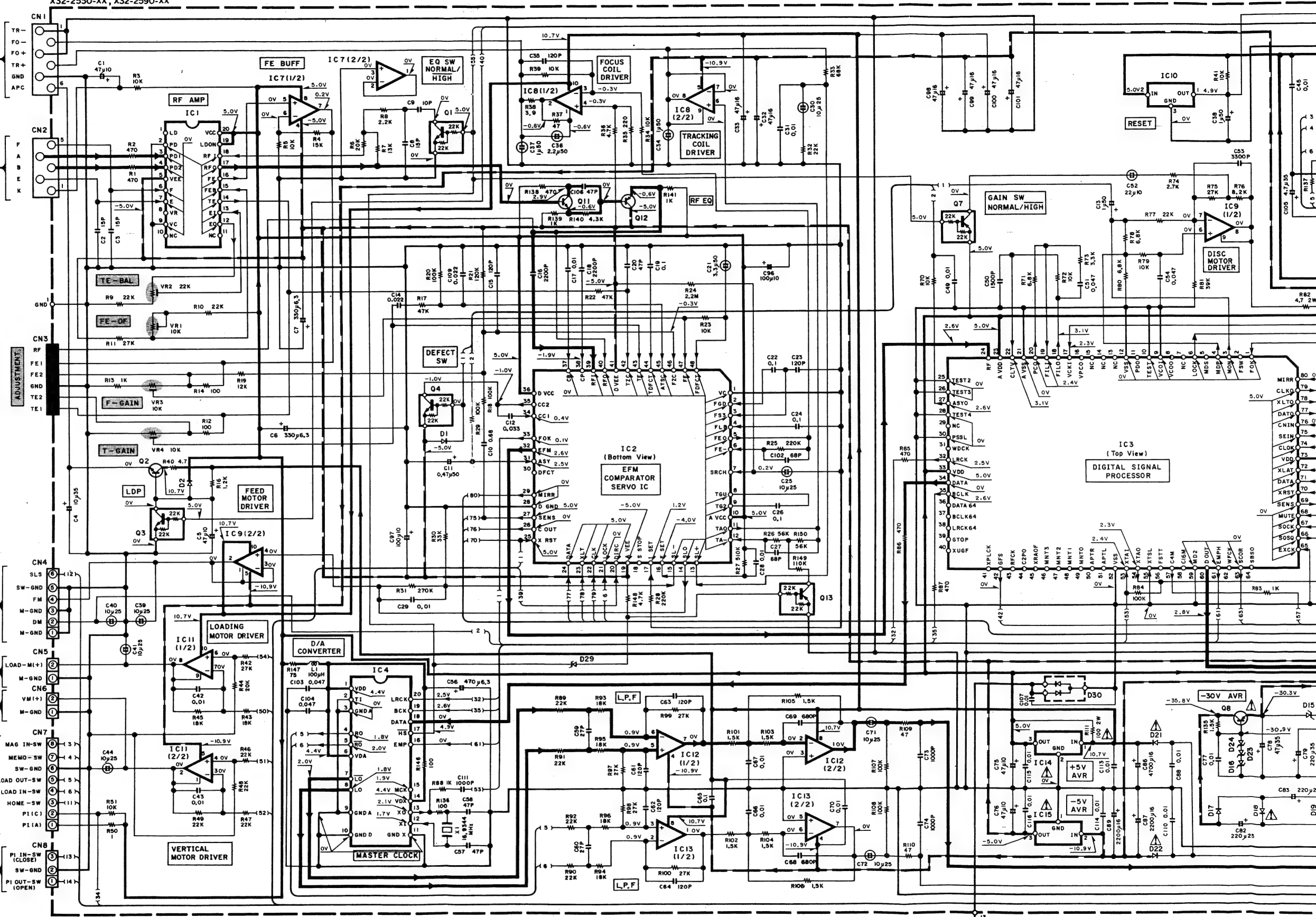
(b) Focus error balance : Optimum eye pattern.



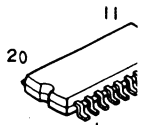
(c) Focus gain : Two VTVMs should read the same value.

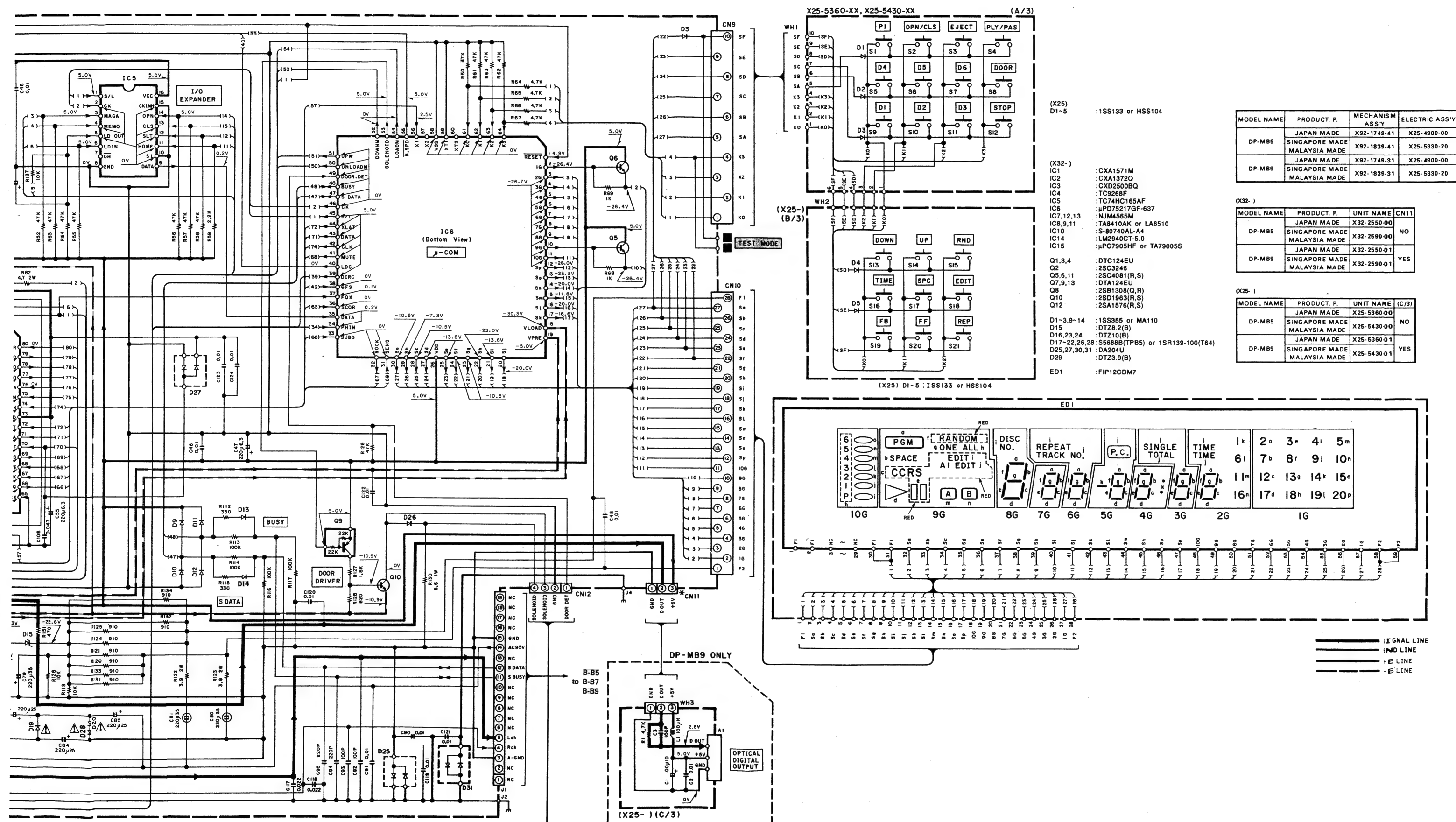


Refer to the schematic diagram for the values of resistors and capacitors.



TC9268F





MODEL NAME	PRODUCT. P.	MECHANISM ASSY	ELECTRIC ASSY
DP-MB5	JAPAN MADE	X92-1749-41	X25-4900-00
	SINGAPORE MADE	X92-1839-41	X25-5330-20
DP-MB9	JAPAN MADE	X92-1749-31	X25-4900-00
	SINGAPORE MADE	X92-1839-31	X25-5330-20

MODEL NAME	PRODUCT. P.	UNIT NAME	CN11
DP-MB5	JAPAN MADE	X32-2550-00	NO
	SINGAPORE MADE	X32-2590-00	
DP-MB9	JAPAN MADE	X32-2550-01	YES
	SINGAPORE MADE	X32-2590-01	

MODEL NAME	PRODUCT. P.	UNIT NAME	(C/3)
DP-MB5	JAPAN MADE	X25-5360-00	NO
	SINGAPORE MADE	X25-5430-00	
DP-MB9	JAPAN MADE	X25-5360-01	YES
	SINGAPORE MADE	X25-5430-01	

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

DP-MB5/MB9 (K)

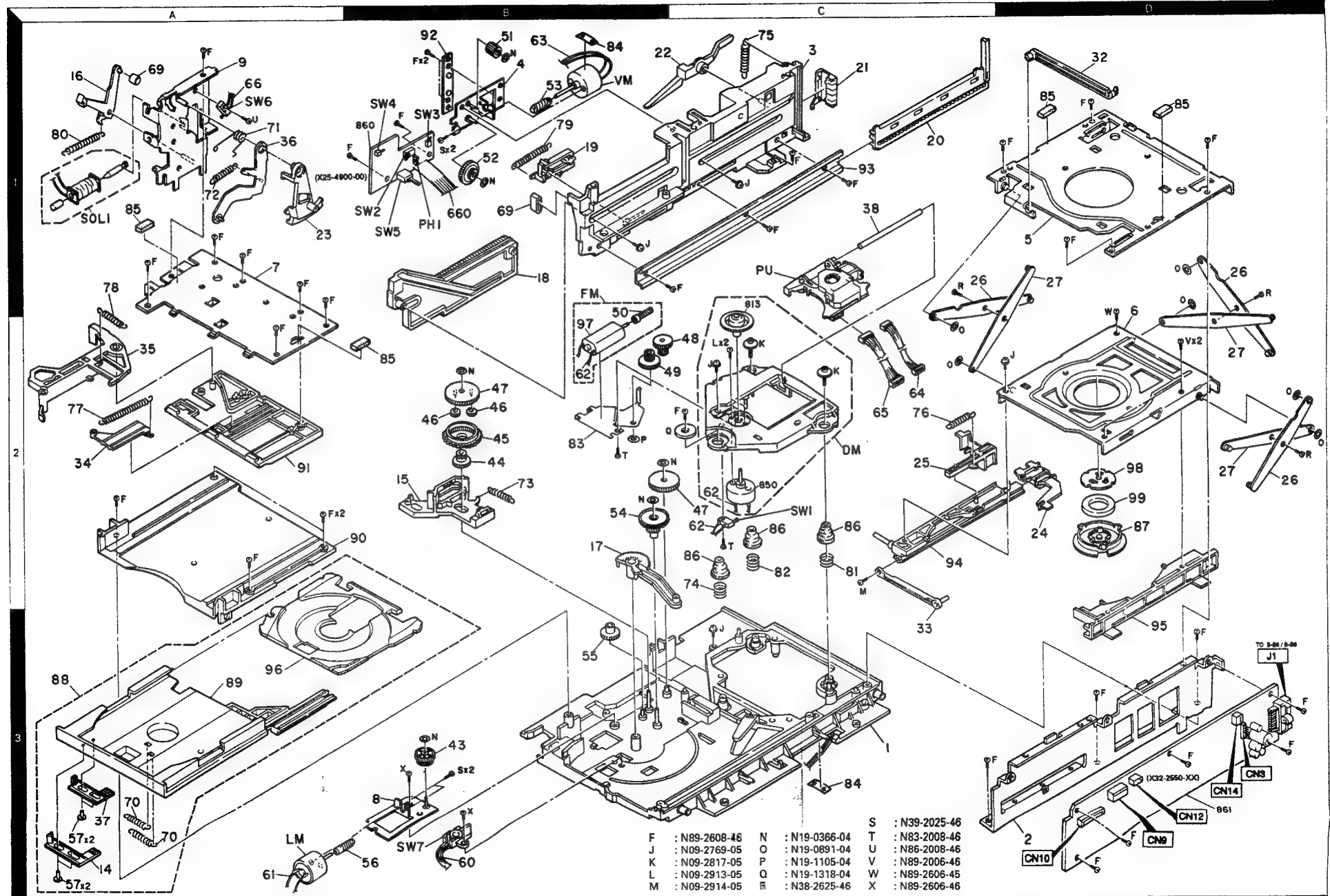
DP-MB5/
KENWOOD

DP-MB5/MB9

DP-MB5/MB9

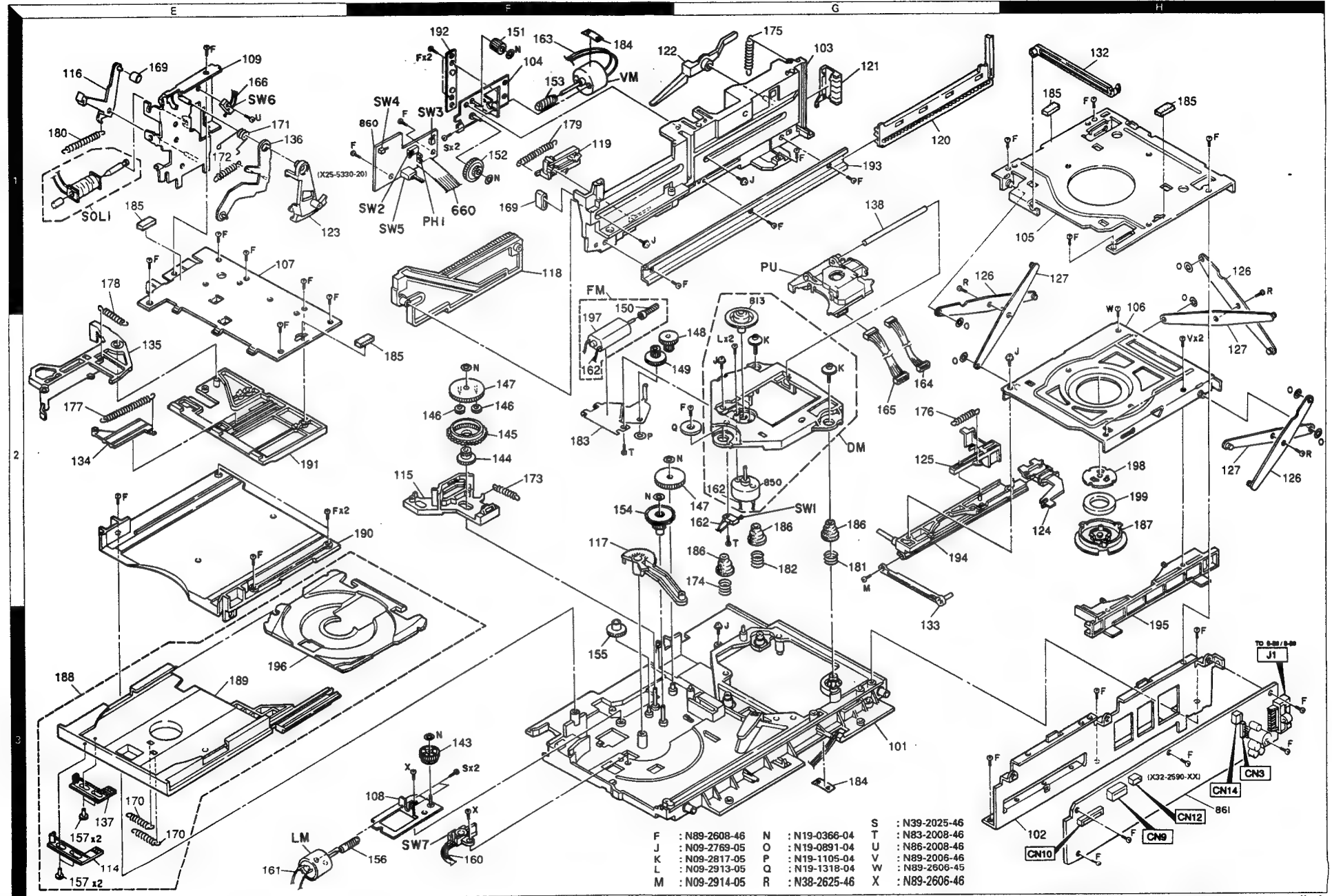
DP-MB5/MB9

EXPLODED VIEW (MECHANISM) : JAPAN MADE

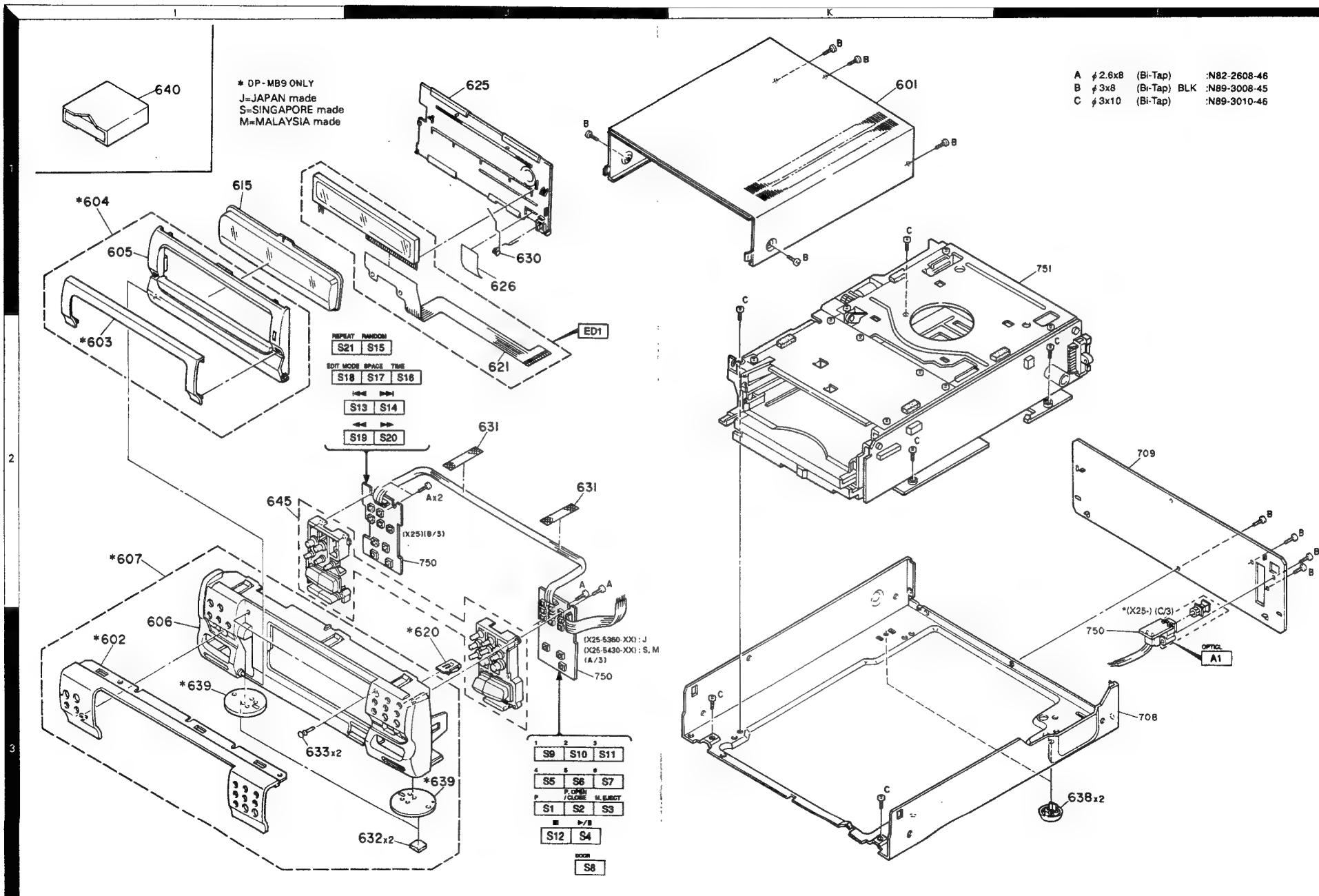


DP-MB5/MB9 DP-MB5/MB9

EXPLODED VIEW (MECHANISM) : SINGAPORE, MALAYSIA MADE



DP-MB5/MB9 DP-MB5/MB9
EXPLODED VIEW (UNIT)



* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

1

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
DP-MB5 : JAPAN MADE						
601	1K		A01-2970-01	METALLIC CABINET		
605	1I	*	A29-0355-02	PANEL (TRAY)		
606	3I	*	A60-0455-01	PANEL (FRONT)		
615	1I	*	B10-1979-03	FRONT GLASS		
621	2J		E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J		F19-1036-04	BLIND PLATE		
630	1J	*	G09-0630-14	SPRING		
631	2J		G10-0173-04	NON-WOVEN FABRIC		
632	3J		G11-2052-14	CUSHION		
633	3I		G13-0182-04	CUSHION		
-		*	H10-5530-02	POLYSTYRENE FOAMED FIXTURE (L)		
-		*	H10-5531-02	POLYSTYRENE FOAMED FIXTURE (R)		
-		*	H20-0574-04	PROTECTION COVER		
-		*	H25-0681-04	PROTECTION BAG		
-		*	H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H50-0730-04	ITEM CARTON CASE		
638	3L		J02-0370-05	FOOT(REAR)		
640	1I		J19-3397-12	HOLDER ASSY(CDM-600)		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE,STOP etc.)		
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
DP-MB5 : SINGAPORE MADE						
601	1K		A01-2970-01	METALLIC CABINET		
605	1I	*	A29-0360-02	PANEL (TRAY)		S
606	3I	*	A60-0470-01	PANEL (FRONT)		S
615	1I	*	B10-1979-03	FRONT GLASS		
-			B46-0122-23	WARRANTY CARD		
-			B46-0143-13	WARRANTY CARD		
621	2J		E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J		F19-1036-04	BLIND PLATE		
630	1J	*	G09-0630-14	SPRING		
631	2J		G10-0173-04	NON-WOVEN FABRIC		
632	3J		G11-2052-14	CUSHION		
633	3I		G13-0182-04	CUSHION		
-		*	H10-5552-12	POLYSTYRENE FOAMED FIXTURE (L)		S
-		*	H10-5553-12	POLYSTYRENE FOAMED FIXTURE (R)		S
-		*	H20-0574-04	PROTECTION COVER		
-		*	H25-0681-04	PROTECTION BAG		
-		*	H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H50-0741-04	ITEM CARTON CASE		S
-		*	H50-0742-04	ITEM CARTON CASE		S
-		*	H50-0792-04	ITEM CARTON CASE		S

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2

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
638	3L		J02-0370-05	FOOT		
640	1I		J19-3397-12	HOLDER ASSY(CDM-600)		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE,STOP etc.)		
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
DP-MB5 : MALAYSIA MADE						
601	1K		A01-2970-01	METALLIC CABINET		
605	1I	*	A29-0360-02	PANEL (TRAY)		S
606	3I	*	A60-0470-01	PANEL (FRONT)		S
615	1I	*	B10-1979-03	FRONT GLASS		
621	2J		E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J		F19-1036-04	BLIND PLATE		
630	1J	*	G09-0630-14	SPRING		
631	2J		G10-0173-04	NON-WOVEN FABRIC		
632	3J		G11-2052-14	CUSHION		
633	3I		G13-0182-04	CUSHION		
-		*	H10-5595-12	POLYSTYRENE FOAMED FIXTURE(L)		S
-		*	H10-5596-12	POLYSTYRENE FOAMED FIXTURE(R)		S
-		*	H25-0681-04	PROTECTION BAG		S
-		*	H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		S
-		*	H50-0793-04	ITEM CARTON CASE		S
638	3L		J02-0370-05	FOOT(REAR)		
640	1I		J19-3397-12	HOLDER ASSY(CDM-600)		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE,STOP etc.)		
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
DP-MB9 : JAPAN MADE						
601	1K		A01-2970-01	METALLIC CABINET		
602	3I	*	A21-1840-02	DRESSING PANEL(FRONT)		
603	2I	*	A21-1841-03	DRESSING PANEL(TRAY)		
604	1I	*	A29-0349-13	PANEL ASSY(TRAY)		
605	1I	*	A29-0350-02	PANEL(TRAY)		
606	3I	*	A60-0426-01	PANEL(FRONT)		
607	2I	*	A60-0427-22	PANEL ASSY(FRONT)		
615	1I	*	B10-1979-03	FRONT GLASS		
620	3J	*	E29-1606-04	LEAD PLATE		
621	2J		E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J		F19-1036-04	BLIND PLATE		
630	1J	*	G09-0632-14	SPRING		
631	2J		G10-0173-04	NON-WOVEN FABRIC		

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PARTS LIST

DP-MB5/MB9

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3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
632 633	3J 3I		G11-2052-14 G13-0182-04	CUSHION CUSHION		
-		*	H10-5530-02	POLYSTYRENE FOAMED FIXTURE(L)	M PX	
-		*	H10-5531-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H20-0576-04	PROTECTION COVER		
-			H25-0681-04	PROTECTION BAG		
-			H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H50-0743-04	ITEM CARTON CASE		
638	3L		J02-0370-05	FOOT(REAR)		
639	3I, 3J	*	J02-1095-04	FOOT(FRONT)		
640	1I	*	J19-3397-12	HOLDER ASSY(CDM-600)		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE, STOP etc.)		
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
DP-MB9 : SINGAPORE MADE						
601	1K		A01-2970-01	METALLIC CABINET		
602	3I	*	A21-1840-02	DRESSING PANEL(FRONT)		
603	2I	*	A21-1841-03	DRESSING PANEL(TRY)		
604	1I	*	A29-0349-13	PANEL ASSY(TRY)		
605	1I	*	A29-0350-02	PANEL(TRY)		
606	3I	*	A60-0426-01	PANEL(FRONT)		
607	2I	*	A60-0427-22	PANEL ASSY(FRONT)		
615	1I	*	B10-1979-03	FRONT GLASS		
-			B46-0122-23	WARRANTY CARD	E T	
-			B46-0143-13	WARRANTY CARD		
620	3J	*	E29-1606-04	LEAD PLATE		
621	2J	*	E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J	*	F19-1036-04	BLIND PLATE		
630	1J	*	G09-0632-14	SPRING		
631	2J		G10-0173-04	NON-WOVEN FABRIC		
632	3J		G11-2052-14	CUSHION		
633	3I		G13-0182-04	CUSHION		
-		*	H10-5552-12	POLYSTYRENE FOAMED FIXTURE(L)	M KXTE	S
-		*	H10-5553-12	POLYSTYRENE FOAMED FIXTURE(R)		S
-			H20-0574-04	PROTECTION COVER		
-			H25-0681-04	PROTECTION BAG		
-			H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H50-0745-04	ITEM CARTON CASE	KX M TE	S
-		*	H50-0746-04	ITEM CARTON CASE		S
-		*	H50-0794-04	ITEM CARTON CASE		S
638	3L		J02-0370-05	FOOT(REAR)		
639	3J	*	J02-1095-04	FOOT(FRONT)		
640	1I	*	J19-3397-12	HOLDER ASSY(CDM-600)		
-			J61-0307-05	WIRE BAND		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE, STOP etc.)		

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4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
A B C			N82-2608-46 N89-3008-45 N89-3010-46	BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
DP-MB9 : MALAYSIA MADE						
601	1K		A01-2970-01	METALLIC CABINET		
602	3I	*	A21-1840-02	DRESSING PANEL(FRONT)		
603	2I	*	A21-1841-03	DRESSING PANEL(TRY)		
604	1I	*	A29-0349-13	PANEL ASSY(TRY)		
605	1I	*	A29-0350-02	PANEL(TRY)		
606	3I	*	A60-0426-01	PANEL(FRONT)		
607	2I	*	A60-0427-22	PANEL ASSY(FRONT)		
615	1I	*	B10-1979-03	FRONT GLASS		
620	3J	*	E29-1606-04	LEAD PLATE		
621	2J	*	E35-0385-04	FLAT CABLE		
625	1J	*	F07-0720-22	COVER		
626	1J	*	F19-1036-04	BLIND PLATE		
630	1J	*	G09-0632-14	SPRING		
631	2J		G10-0173-04	NON-WOVEN FABRIC		
632	3J		G11-2052-14	CUSHION		
633	3I		G13-0182-04	CUSHION		
-		*	H10-5595-12	POLYSTYRENE FOAMED FIXTURE(L)	S S S	
-		*	H10-5596-12	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0681-04	PROTECTION BAG		
-			H30-0077-04	ADHESIVE DOUBLE-COATED TAPE		
-		*	H50-0795-04	ITEM CARTON CASE		
638	3L		J02-0370-05	FOOT(REAR)		
639	3I	*	J02-1095-04	FOOT(FRONT)		
640	1I	*	J19-3397-12	HOLDER ASSY(CDM-600)		
645	2I	*	K29-5777-12	KNOB(PLAY/PAUSE, STOP etc.)		
A			N82-2608-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3010-46	BINDING HEAD TAPTITE SCREW		
ED1	2J		FIP12CDM7	INDICATOR TUBE		
ELECTRIC UNIT X25-4900-00 : J, X25-5330-20 : S, M (-00 : MB5, -01 : MB9)						
660	1B		E35-0389-05	WIRING HARNESS(8P)		J
660	1F		E35-0599-05	WIRING HARNESS(8P)		S
SW2	1B, 1F		S64-0006-05	LEVER SWITCH(HOME POSITION)		
SW3, 4	1B, 1F		S68-0025-05	PUSH SWITCH(MEMORY, MAGAZINE)		
SW5	1B, 1F		S33-2062-05	LEVER SWITCH(LOADING IN/OUT)		
PH1	1B, 1F		T95-0123-05	OPTO ISOLATOR(LIFT POSITION)		
DISPLAY UNIT X25-5360-XX : J, X25-5430-XX : S, M (-00 : MB5, -01 : MB9)						
C1			CE04KW1A101M	ELECTRO 100UF 10WV		9
C2			CK45FF1H103Z	CERAMIC 0.010UF Z		9
C3			CC45FSL1H101J	CERAMIC 100PF J		9
L1			L40-1011-17	SMALL FIXED INDUCTOR(100UH, K)		9
S1 -21	2J, 3J		S40-1064-05	TACT SWITCH(P1, OPEN/CLOSE etc)		

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DP-MB5/MB9

PARTS LIST

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5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
D1 -5 D1 -5			HSS104 ISS133	DIODE DIODE		
A1	3L		W02-1114-05	OSCILLATING MODULE(OPTICAL OUT		9
CD PLAYER UNIT X32-2550-XX : J, X32-2590-XX : S, M (-00 : MB5, -01 : MB9)						
C1 C2 ,3 C4 C5 C6 ,7			CE04KW1A470M CC73FSL1H150J CE04KW1V100M CE04KW1A470M CE04KW0J331M	ELECTR CHIP C ELECTR ELECTR ELECTR	47UF 10WV 15PF J 10UF 35WV 47UF 10WV 330UF 6.3WV	
C8 C9 C10 C11 C12			CC73FSL1H150J CC73FSL1H100J CK73EF1C684Z CE04KW1HR47M CK73FB1H333K	CHIP C CHIP C CHIP C ELECTR CHIP C	15PF J 10PF J 0.68UF Z 0.47UF 50WV 0.033UF K	
C13 C14 C15 C16 C17			CE04KW1H010M CK73FB1H223K CC73FSL1H121J CK73FB1H222K CK73FB1H103K	ELECTR CHIP C CHIP C CHIP C CHIP C	1.0UF 50WV 0.022UF K 120PF J 2200PF K 0.010UF K	
C18 C19 C20 C21 C22			CK73FB1H222K CK73FB1E104K CC73FSL1H470J CE04HW1H3R3M CK73FB1E104K	CHIP C CHIP C CHIP C NP-ELEC CHIP C	2200PF K 0.10UF K 47PF J 3.3UF 50WV 0.10UF K	
C23 C24 C25 C26 C27			CC73FSL1H121J CK73FB1E104K CE04HW1E100M CK73FB1E104K CC73FSL1H680J	CHIP C CHIP C NP-ELEC CHIP C CHIP C	120PF J 0.10UF K 10UF 25WV 0.10UF K 68PF J	
C28 ,29 C30 C31 C32 ,33 C34			CK73FB1H103K CE04HW1E100M CK73FB1H103K CE04KW1C470M CE04HW1H010M	CHIP C NP-ELEC CHIP C ELECTR NP-ELEC	0.010UF K 10UF 25WV 0.010UF K 47UF 16WV 1.0UF 50WV	
C35 C36 C37 C38 C39 -41			CC73FSL1H121J CE04HW1H2R2M CE04HW1H010M CE04KW1H010M CE04HW1E100M	CHIP C NP-ELEC NP-ELEC ELECTR NP-ELEC	120PF J 2.2UF 50WV 1.0UF 50WV 1.0UF 50WV 10UF 25WV	
C42 ,43 C44 C45 ,46 C47 C48 ,49			CK73FB1H103K CE04HW1E100M CK73FB1H103K CE04KW0J221M CK73FB1H103K	CHIP C NP-ELEC CHIP C ELECTR CHIP C	0.010UF K 10UF 25WV 0.010UF K 220UF 6.3WV 0.010UF K	
C50 C51 C52 C53 C54			CK73FB1H152K CK73FB1H473K CE04HW1A220M CK73FB1H332K CK73FB1H473K	CHIP C CHIP C NP-ELEC CHIP C CHIP C	1500PF K 0.047UF K 22UF 10WV 3300PF K 0.047UF K	
C55 C56 C57 ,58 C59 ,60 C61 -64			CE04KW0J221M CE04KW0J471M CC73FCH1H470J CC73FSL1H270J CC73FSL1H121J	ELECTR ELECTR CHIP C CHIP C CHIP C	220UF 6.3WV 470UF 6.3WV 47PF J 27PF J 120PF J	

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6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
C65 C66 ,67 C68 ,69 C70 C71 ,72			CK73FB1E104K CK73FB1H103K CC73FSL1H681J CK73FB1H103K CE04HW1E100M	CHIP C CHIP C CHIP C CHIP C NP-ELEC	0.10UF K 0.010UF K 680PF J 0.010UF K 10UF 25WV	
C73 ,74 C75 ,76 C77 C78 C79			CK73FB1H102K CE04KW1A470M CK73FB1H103K CE04KW1V470M CE04DW1V221M	CHIP C ELECTR CHIP C ELECTR ELECTR	1000PF K 47UF 10WV 0.010UF K 47UF 35WV 220UF 35WV	
C80 ,81 C82 -85 C86 C87 C88			CE04HW1V221M CE04KW1E221M CE04KW1C472M CE04KW1C222M CK73FB1H103K	NP-ELEC ELECTR ELECTR ELECTR CHIP C	220UF 35WV 220UF 25WV 4700UF 16WV 2200UF 16WV 0.010UF K	
C89 C90 ,91 C92 ,93 C94 ,95 C96 ,97			CE04KW1C222M CK73FB1H103K CC73FSL1H101J CC73FSL1H221J CE04KW1A101M	ELECTR CHIP C CHIP C CHIP C ELECTR	2200UF 16WV 0.010UF K 100PF J 220PF J 100UF 10WV	
C98 -101 C102 C103,104 C105 C106			CE04KW1C470M CC73FSL1H680J CK73FB1H473K CE04KW1V477M CC73FSL1H470J	ELECTR CHIP C CHIP C ELECTR CHIP C	47UF 16WV 68PF J 0.047UF K 4.7UF 35WV 47PF J	
C107 C108 C109 C110 C111			CK73FB1H103K CK73FB1H473K CK73FB1H223K CK73FB1H103K CK73FB1H102K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF K 0.047UF K 0.022UF K 0.010UF K 1000PF K	
C113-116 C117,118 C119-124			CK73FB1H103K CK73FB1H223K CK73FB1H103K	CHIP C CHIP C CHIP C	0.010UF K 0.022UF K 0.010UF K	
CN3 CN9 CN10 CN11 J1	3D,3H 3D,3H 3D,3H 3D,3H 3D,3H		E40-0611-05 E40-4284-05 E40-4616-05 E40-4293-05 E58-0006-05	PIN ASSY(ADJUSTMENT) FLAT CABLE CONNECTOR(10P) FLAT CABLE CONNECTOR(28P) FLAT CABLE CONNECTOR(3P) RECTANGULAR RECEPTACLE		
J5 -7			J11-0098-05	WIRE CLAMPER		
L1 X1			L33-0369-05 L77-1164-05	CHOKER COIL CRYSTAL RESONATOR(16.9344MHz)		
R82 R111 R122,123 R130 VR1			RS14KB3D4R7J RS14KB3D101J RS14KB3D3R9J RS14KB3A5R6J R12-3685-05	FL-PROOF RS FL-PROOF RS FL-PROOF RS FL-PROOF RS TRIMMING P0T	4.7 J 2W 100 J 2W 3.9 J 2W 5.6 J 1W 10K<FE BAL>	
VR2 VR3 ,4 W1 -3 W4 W10 -12 W14			R12-3686-05 R12-3685-05 R92-0679-05 R92-0670-05 R92-0679-05 R92-0670-05	TRIMMING P0T TRIMMING P0T CHIP R CHIP R CHIP R CHIP R	22K<TE BAL> 10K<F,T-GAIN> 0 OHM 0 OHM 0 OHM 0 OHM	

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PARTS LIST

DP-MB5/MB9

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7

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D1 -3 D1 -3 D9 -14 D9 -14 D15			MA110 1SS355 MA110 1SS355 DTZ8.2(B)	DIODE DIODE DIODE DIODE ZENER DIODE		
D16 D17 -22 D17 -22 D23 ,24 D25			DTZ10(B) S5688B(TPB5) 1SR139-100(T64) DTZ10(B) DA204U	ZENER DIODE DIODE DIODE ZENER DIODE DIODE		
D26 D26 D27 D28 D28			S5688B(TPB5) 1SR139-100(T64) DA204U S5688B(TPB5) 1SR139-100(T64)	DIODE DIODE DIODE DIODE DIODE		
D29 D30 ,31 IC1 IC2 IC3		*	DTZ3.9(B) DA204U CXA1571M CXA1372Q CXD2500BQ	ZENER DIODE DIODE IC(CD RF AMP) IC(CD RF SERVØ) IC(DIGITAL SIGNAL PROCESSØR)		
IC4 IC5 IC6 IC7 IC8 ,9		*	TC9268F TC74HC165AF UPD75217GF-637 NJM4565M LA6510	IC(DIGITAL FILTER) IC(8BIT SHIFT REGISTER) IC(4BIT MICROPROCESSØR) IC(OP AMP X2) IC(DUAL POWER OP AMP)		
IC8 ,9 IC10 IC11 IC11 IC12,13		*	TAB410AK S-80740AL-A4 LA6510 TAB410AK NJM4565M	IC(POWER OP AMP) IC(VOLTAGE DETECTOR) IC(DUAL POWER OP AMP) IC(POWER OP AMP) IC(OP AMP X2)		
IC14 IC15 IC15 Q1 Q2			LM2940CT-5.0 TA79005S UPC7905HF DTC124EU 2SC3246	IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ -5V) IC(VOLTAGE REGULATOR/ -5V) DIGITAL TRANSISTØR TRANSISTØR		
Q3 ,4 Q5 ,6 Q7 Q8 Q9			DTC124EU 2SC4081(R,S) DTA124EU 2SB1308(Q,R) DTA124EU	DIGITAL TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR		
Q10 Q11 Q12 Q13			2SD1963(R,S) 2SC4081(R,S) 2SA1576(R,S) DTA124EU	TRANSISTØR TRANSISTØR TRANSISTØR DIGITAL TRANSISTØR		
MECHANISM ASS'Y JAPAN MADE (X92-1749-XX -00 : MB5, -01 : MB9)						
1 2 3 4 5	3C 3D 1C 1B 1D		A10-3025-02 A11-0742-02 A11-0745-01 A11-0746-04 A11-0750-02	CHASSIS ASSY SUB CHASSIS(RIGHT) SUB CHASSIS(LEFT) SUB CHASSIS CALKING ASSY SUB CHASSIS(LOADING)		
6 7 8 9	2D 1A 3B 1A		A11-0752-02 A11-0753-03 A11-0763-04 A11-0765-04	SUB CHASSIS(LOADING) SUB CHASSIS SUB CHASSIS CALKING ASSY SUB CHASSIS CALKING ASSY		

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△ indicates safety critical components.

* New Parts

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8

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
14 15 16 17 18	3A 2B 1A 2B 1B	*	D10-3105-13 D10-3257-03 D10-3258-03 D10-3260-03 D10-3261-03	SLIDER SLIDER ARM(LOCK) ARM(LOADING) SLIDER(LIFT)		
19 20 21 22 23	1B 1C 1C 1B 1A		D10-3262-04 D10-3263-03 D10-3264-04 D10-3265-04 D10-3266-03	SLIDER(DOOR) SLIDER(LOADING) SLIDER ARM ARM(DOOR)		
24 25 26 27 32	2D 2C 1C,2D 1D,2D 1D		D10-3267-03 D10-3268-03 D10-3269-04 D10-3271-04 D10-3273-03	ARM(LOADING) SLIDER ARM ASSY ARM ASSY ARM		
33 34 35 36 37	3C 2A 2A 1A 3A		D10-3274-04 D10-3275-04 D10-3276-03 D10-3278-04 D10-3281-03	ARM SLIDER(EJECT) ARM(LOCK) ARM ASSY SLIDER		
38 43 44 45 46	1C 3B 2B 2B 2B		D10-3294-14 D13-0983-04 D13-0984-04 D13-0985-04 D13-0986-04	ROD(PICKUP) GEAR GEAR GEAR GEAR(PLANET)		
47 48 49 50 51	2B,2C 2B 2C 1B 1B		D13-0987-04 D13-0989-04 D13-0990-04 D13-0991-04 D13-0992-04	GEAR(CARRIER) GEAR(INTERMEDIATE) GEAR(FINAL) GEAR(WORM) GEAR		
52 53 54 55 56	1B 1B 2B 3B 3B		D13-0993-04 D13-0994-04 D13-0995-04 D13-0996-04 D13-1502-04	GEAR GEAR GEAR(ARM) GEAR WORM		
57	3A		D21-1633-05	SHAFT		
60 61 62 63 64	3B 3A 2B,2C 1B 2C		E35-0388-05 E35-0390-05 E35-0391-05 E35-0392-05 E35-0417-05	WIRING HARNESS(LEVER SWITCH) WIRING HARNESS(LOADING MOTOR) WIRING HARNESS(FEED, DISC MOTOR) WIRING HARNESS(VERTICAL MOTOR) WIRING HARNESS(5P)		
65 66	2C 1A		E35-0418-05 E35-0435-08	WIRING HARNESS(6P) WIRING HARNESS(SWITCH)		
69 70 71 72 73	1A,1B 3A 1A 1A 2B		G11-2134-08 G01-3333-04 G01-3470-08 G01-3471-08 G01-3472-04	CUSHION EXTENSION SPRING TORSION COIL SPRING EXTENSION SPRING(LOCK) EXTENSION SPRING		
74 75 76 77 78	2C 1C 2C 2A 1A		G01-3473-04 G01-3474-04 G01-3475-04 G01-3476-04 G01-3477-04	COMPRESSION SPRING EXTENSION SPRING EXTENSION SPRING EXTENSION SPRING EXTENSION SPRING(ARM LOCK)		

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DP-MB5/MB9

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9

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
79	1B		G01-3480-04	EXTENSION SPRING		
80	1A		G01-3481-08	EXTENSION SPRING		
81	2C		G01-3485-04	COMPRESSION SPRING		
82	2C		G01-3518-04	COMPRESSION SPRING		
83	2B		G02-1002-04	FLAT SPRING		
84	1B, 3C		G10-0146-04	NON-WOVEN FABRIC		
85	1A, 1D	*	G11-0129-04	SOFT TAPE (20X7X3)		
86	2C		J02-1058-15	INSULATOR		
87	2D		J11-0181-03	CLAMPER		
88	3A	*	J19-3485-12	HOLDER ASSY		
89	3A	*	J19-3486-11	HOLDER		
90	2B		J19-3487-02	HOLDER(MAGAZINE).		
91	2A		J19-3489-02	HOLDER		
92	1B		J21-5922-04	MOUNTING HARDWARE		
93	1C		J90-0685-03	GUIDE		
94	2C		J90-0686-14	RAIL ASSY		
95	3D		J90-0688-13	RAIL		
96	3A		J99-0517-02	TRAY		
			J61-0307-05	WIRE BAND		
F			N89-2608-46	BINDING HEAD TAPTITE SCREW		
J			N09-2769-05	MACHINE SCREW		
K			N09-2817-05	TAPTITE SCREW (2.6X10, 12P)		
L			N09-2913-05	MACHINE SCREW		
M			N09-2914-05	MACHINE SCREW		
N			N19-0366-04	FLAT WASHER		
O			N19-0891-04	FLAT WASHER		
P			N19-1105-04	FLAT WASHER		
Q			N19-1318-04	FLAT WASHER		
R			N38-2625-46	PAN HEAD MACHIN SCREW		
S			N39-2025-46	PAN HEAD MACHIN SCREW		
T			N83-2008-46	PAN HEAD TAPTITE SCREW		
U			N86-2008-46	BINDING HEAD TAPTITE SCREW		
V			N89-2006-46	BINDING HEAD TAPTITE SCREW		
W			N89-2606-45	BINDING HEAD TAPTITE SCREW		
X			N89-2606-46	BINDING HEAD TAPTITE SCREW		
SW1	2C		S33-1022-05	LEVER SWITCH(PICK UP LIMIT)		
SW6	1A		S33-1022-05	LEVER SWITCH(OPEN/CLOSE)		
SW7	3B		S33-2061-05	LEVER SWITCH(DOOR)		
97	2B		T42-0597-05	DC MOTOR(FEED MOTOR)		
98	2D		T50-1055-04	YÖKE		
99	2D		T99-0503-15	MAGNET		
DM	2C		A11-0791-03	SUB CHASSIS ASSY(DISC MOTOR)		
FM	1B		T42-0612-04	MOTOR ASSY(FEED MOTOR)		
LM	3A		T42-0620-05	DC MOTOR(LOADING MOTOR)		
PU	1C		T25-0023-05	OPTICAL PICKUP HEAD(HPC-2S)		
VM	1B		T42-0567-05	DC MOTOR(VERTICAL MOTOR)		
SOL1	1A		T94-0227-18	MAGNETIC PLUNGER(DOOR)		
MECHANISM ASSY : SINGAPORE, MALAYSIA MADE (X92-1839-XX -00 : MB5, -01 : MB9)						
101	3G		A10-3025-02	CHASSIS ASSY		
102	3H	*	A11-0784-02	SUB CHASSIS(RIGHT)		S
103	1G	*	A11-0785-01	SUB CHASSIS(LEFT)		S
104	1F	*	A11-0786-04	SUB CHASSIS CALKING ASSY		S
105	1H		A11-0750-02	SUB CHASSIS(LOADING)		

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10

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106	2H		A11-0752-02	SUB CHASSIS(LOADING)		
107	1E	*	A11-0781-03	SUB CHASSIS		S
108	3F	*	A11-0782-04	SUB CHASSIS CALKING ASSY		S
109	1E		A11-0765-04	SUB CHASSIS CALKING ASSY		
114	3E	*	D10-3105-13	SLIDER		
115	2F		D10-3257-03	SLIDER		
116	1E		D10-3258-03	ARM(LOCK)		
117	2F	*	D10-3339-03	ARM(LOADING)		S
118	1F	*	D10-3340-02	SLIDER(LIFT)		S
119	1F		D10-3262-04	SLIDER(DOOR)		
120	1G	*	D10-3341-03	SLIDER(LOADING)		S
121	1G		D10-3264-04	SLIDER		
122	1F	*	D10-3342-03	ARM		S
123	1E		D10-3266-03	ARM(DOOR)		
124	2H		D10-3267-03	ARM(LOADING)		
125	2G		D10-3268-03	SLIDER		
126	1G, 1H		D10-3269-04	ARM ASSY		
127	1H, 2H		D10-3271-04	ARM ASSY		
132	1H		D10-3273-03	ARM		
133	3G		D10-3274-04	ARM		
134	2E		D10-3275-04	SLIDER(EJECT)		
135	2E	*	D10-3347-02	ARM(LOCK)		S
136	1E		D10-3278-04	ARM ASSY		
137	3E		D10-3281-03	SLIDER		
138	1G		D10-3294-14	ROD(PICK UP)		
143	3F		D13-0983-04	GEAR		
144	2F		D13-0984-04	GEAR		
145	2F		D13-0985-04	GEAR		
146	2F		D13-0986-04	GEAR(PLANET)		
147	2F, 2G		D13-0987-04	GEAR(CARRIER)		
148	2G		D13-0989-04	GEAR(INTERMEDIATE)		
149	2G		D13-0990-04	GEAR(FINAL)		
150	2F		D13-0991-04	GEAR(WORM)		
151	2F		D13-0992-04	GEAR		
152	1F		D13-0993-04	GEAR		
153	1F		D13-0994-04	GEAR		
154	2F		D13-0995-04	GEAR(ARM)		
155	3F		D13-0996-04	GEAR		
156	3F		D13-1502-04	WORM		
157	3E		D21-1633-05	SHAFT		
160	3F		E35-0388-05	WIRING HARNESS(LEVER SWITCH)		
161	3E		E35-0390-05	WIRING HARNESS(LOADING MOTOR)		
162	2F, 2G		E35-0391-05	WIRING HARNESS(FEED, DISC MOTOR)		
163	1F		E35-0392-05	WIRING HARNESS(VERTICAL MOTOR)		
164	2G		E35-0417-05	WIRING HARNESS(SP)		
165	2G		E35-0418-05	WIRING HARNESS(6P)		
166	1E		E35-0435-08	WIRING HARNESS(SWITCH)		
169	1E, 1F		G11-2134-08	CUSHION		
170	3E		G01-3333-04	EXTENSION SPRING		
171	1E		G01-3470-08	TORSION COIL SPRING		
172	1E		G01-3471-08	EXTENSION SPRING(LOCK)		
173	2F		G01-3472-04	EXTENSION SPRING		
174	2G		G01-3473-04	COMPRESSION SPRING		

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PARTS LIST

DP-MB5/MB9

DP-MB5/MB9

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175	1G		G01-3474-04	EXTENSION SPRING		
176	2G		G01-3475-04	EXTENSION SPRING		
177	2E		G01-3476-04	EXTENSION SPRING		
178	1E		G01-3477-04	EXTENSION SPRING(ARM LOCK)		
179	1F		G01-3480-04	EXTENSION SPRING		
180	1E		G01-3481-08	EXTENSION SPRING		
181	2G		G01-3485-04	COMPRESSION SPRING		
182	2G		G01-3518-04	COMPRESSION SPRING		
183	2F	*	G02-1018-04	FLAT SPRING		
184	1F, 3G		G10-0146-04	NON-WOVEN FABRIC		
185	1E, 1H	*	G11-0129-04	SOFT TAPE (20X7X3)		
186	2G		J02-1058-15	INSULATOR		
187	2H		J11-0181-03	CLAMPER		
188	3E	*	J19-3564-12	HOLDER ASSY		S
189	3E	*	J19-3566-11	HOLDER		S
190	2F	*	J19-3567-02	HOLDE(MAGAZINE)		S
191	2E	*	J19-3568-02	HOLDER		S
192	1F	*	J21-5979-04	MOUNTING HARDWARE		S
193	1G	*	J90-0696-03	GUIDE		S
194	2G	*	J90-0697-04	RAIL ASSY		S
195	3H	*	J90-0699-02	RAIL		S
196	3H		J99-0517-02	TRAY		
F			N09-2608-46	BINDING HEAD TAPTITE SCREW		
J			N09-2769-05	MACHINE SCREW		
K			N09-2817-05	TAPTITE SCREW (2.6X10,12P)		
L			N09-2913-05	MACHINE SCREW		
M			N09-2914-05	MACHINE SCREW		
N			N19-0366-04	FLAT WASHER		
O			N19-0891-04	FLAT WASHER		
P			N19-1105-04	FLAT WASHER		
Q			N19-1318-04	FLAT WASHER		
R			N38-2625-46	PAN HEAD MACHIN SCREW		
S			N39-2025-46	PAN HEAD MACHIN SCREW		
T			N83-2008-46	PAN HEAD TAPTITE SCREW		
U			N86-2008-46	BINDING HEAD TAPTITE SCREW		
V			N89-2006-46	BINDING HEAD TAPTITE SCREW		
W			N89-2606-45	BINDING HEAD TAPTITE SCREW		
X			N89-2606-46	BINDING HEAD TAPTITE SCREW		
SW1	2G		S33-1022-05	LEVER SWITCH(PICKUP LIMIT)		
SW6	1E		S33-1022-05	LEVER SWITCH(OPEN/CLOSE)		
SW7	3F		S33-2061-05	LEVER SWITCH(DOOR)		
197	2F		T42-0597-05	DC MOTOR(FEED MOTOR)		
198	2H		T50-1055-04	YÖKE		
199	2H		T99-0503-15	MAGNET		
DM	2G		A11-0791-03	SUB CHASSIS ASSY(DISC MOTOR)		
FM	1F		T42-0612-04	MOTOR ASSY(FEED MOTOR)		
LM	3E		T42-0620-05	DC MOTOR(LOADING MOTOR)		
PU	1G		T25-0023-05	OPTICAL PICKUP HEAD(HPC-2S)		
VM	1F		T42-0567-05	DC MOTOR(VERTICAL MOTOR)		
SOL1	1E		T94-0227-18	MAGNETIC PLUNGER(DOOR SOLENOID)		

L:Scandinavia

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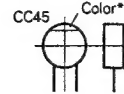
⚠ indicates safety critical components.

PARTS LIST

CAPACITORS

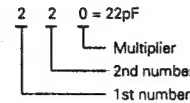
CC	45	TH	1H	220	J
1	2	3	4	5	6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating
 2 = Shape ... round, square, ect. 5 = Value
 3 = Temp. coefficient 6 = Tolerance



• Capacitor value

010	= 1pF
100	= 10pF
101	= 100pF
102	= 1000pF = 0.001μF
103	= 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word	0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

- (EX)

C	C	7	3	F	S	L	1	H	0	0	J
1	2	3	4	5	6	7					

 Refer to the table above.
 1 = Type
 2 = Shape
 3 = Dimension
 4 = Temp. coefficient
 5 = Voltage rating
 6 = Value
 7 = Tolerance
- (Chip) (CH, RH, UJ, SL)
- (EX)

C	K	7	3	F	F	1	H	0	0	Z
1	2	3	4	5	6	7				

 (Chip) (B, F)

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

- (EX)

R	K	7	3	E	B	2	B	0	0	J
1	2	3	4	5	6	7				

 (Chip) (B, F)

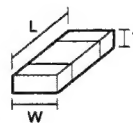
• Carbon resistor (Normal type)

- (EX)

R	D	1	4	B	B	2	C	0	0	J
1	2	3	4	5	6	7				

- 1 = Type 5 = Rating wattage
 2 = Shape 6 = Value
 3 = Dimension 7 = Tolerance
 4 = Temp. coefficient

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

SPECIFICATIONS

- Laser Semiconductor laser
 Playing rotation 200rpm ~ 500rpm (CLV)
 Frequency response 20Hz ~ 20kHz, +0dB, -1.5dB
 Signal noise ratio More than 93dB
 Total harmonic distortion Less than 0.01% (at 1kHz)
 Channel separation More than 85dB (at 1kHz)
 Wow & Flutter Unmeasurable limit
 Digital output (Optical) -15dBm ~ -21dBm (Wave length 660nm) : DP-MB9 only

GENERAL

- Dimensions W: 270mm (10 - 5/8") x H: 85mm (3 - 3/8") x D: 311mm (12 - 1/4")
 Weight (net) 3.2kg (7.0lb)

Note : KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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